UNITED STATES PATENT AND TRADEMARK OFFICE

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Applicant: Serial No:

Filing Date:

TENT & LLINS et al.

09/328,726

October 26, 1998

Atty Docket No: 20206-25 (PT-TA 410 (Cont.))2

2766

TC 2100 MAI

Group Art Unit: Examiner:

Leaning, J.

For:

"PUBLIC KEY CRYPTOGRAPHIC APPARATUS AND METHOD"

Box RCE Assistant Commissioner for Patents Washington, D.C. 20231

REQUEST FOR CONTINUED EXAMINATION (RCE) UNDER 37 CFR 1.114 AND AMENDMENT

Examiner:

Applicants are submitting this amendment along with a Request for Continued Examination (RCE) under 37 CFR 1.114. Please amend the above identified application as follows and consider the following remarks in response to the Final Office Action mailed on December 26, 2000 for the above identified prior application.

In The Claims:

14. (Twice Amended) A method for establishing cryptographic communications that are backwards compatible with preexisting public key infrastructures, comprising the step of:

encoding a plaintext message word M to a ciphertext word C, where M corresponds to a number representative of a message and

 $0 \le M \le n-1$

n being a composite number formed from the product of $p_1 \cdot p_2 \cdot ... \cdot p_k$ where k is an integer greater than 2[,] and $p_1, p_2, ..., p_k$ are distinct random prime numbers, and where the ciphertext word C

is a number representative of an encoded form of message word M, said encoding step including

the steps of,

defining a plurality of k sub-tasks in accordance with,

 $C_1 \equiv M_1^{e_1} \pmod{p_1}$

 $C_2 \equiv M_2^e \pmod{p_2},$

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